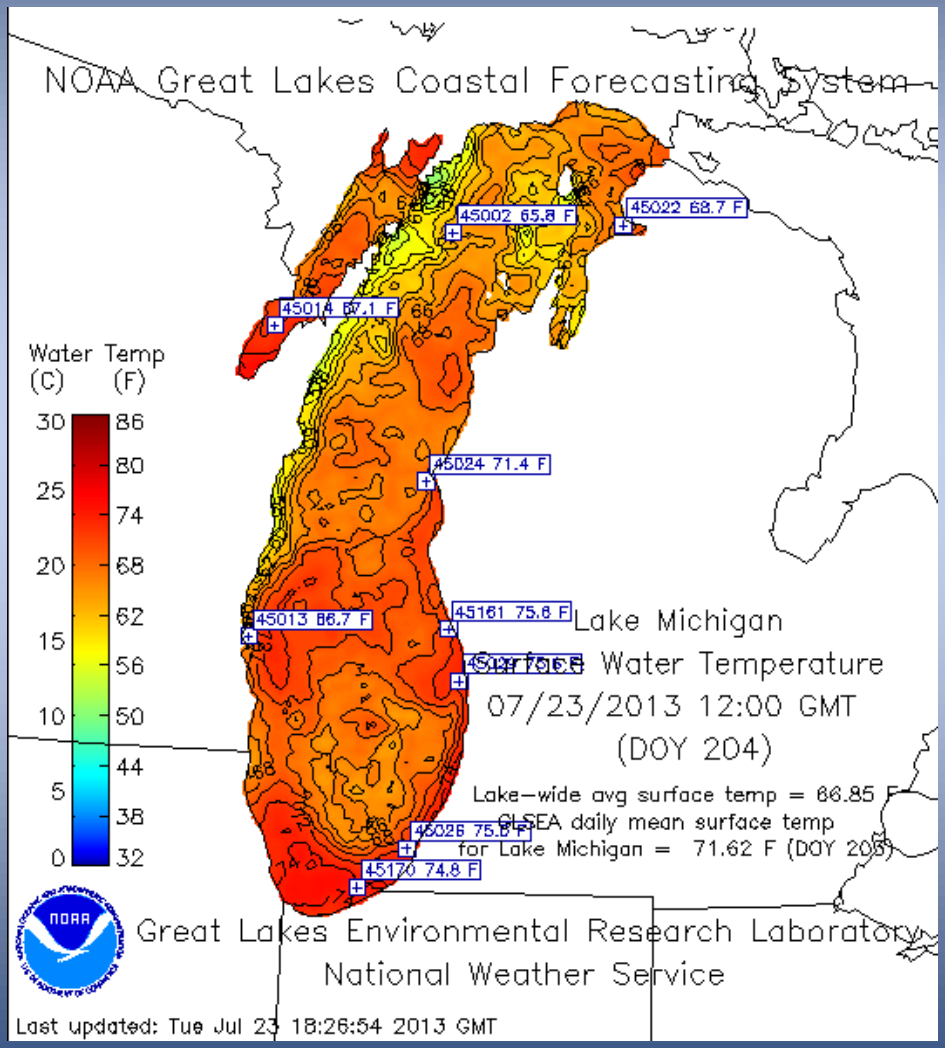
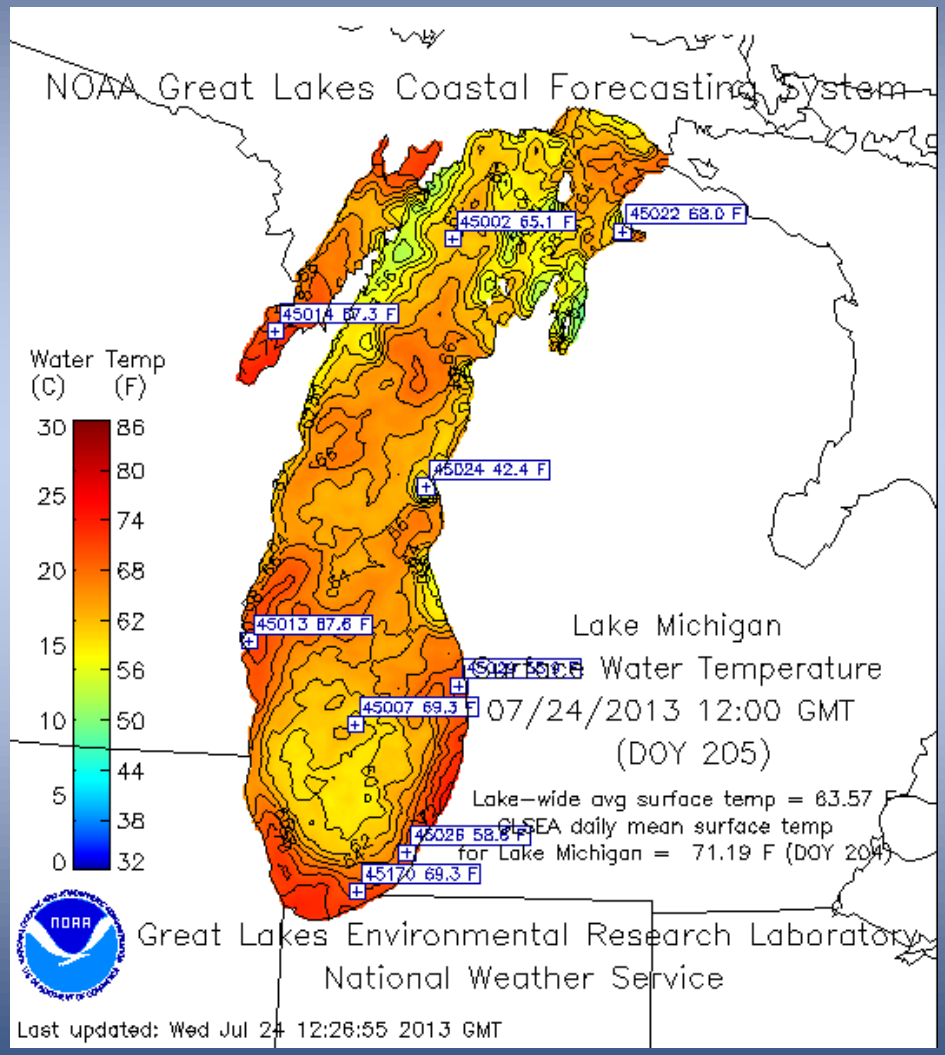
Lake Michigan goes from Warm to cold in hours

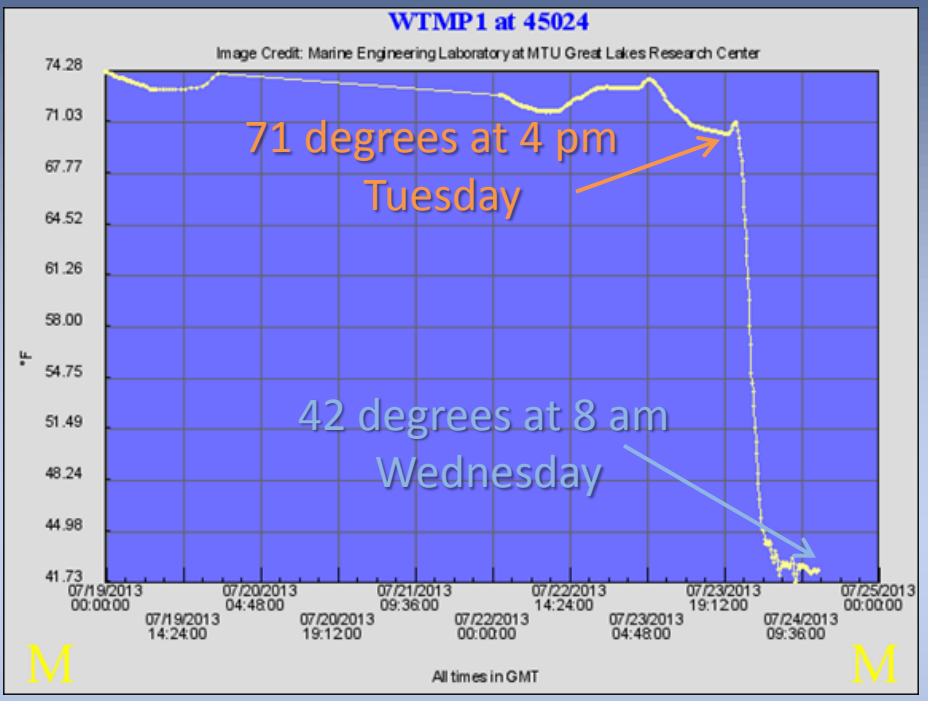


8 am Tuesday morning

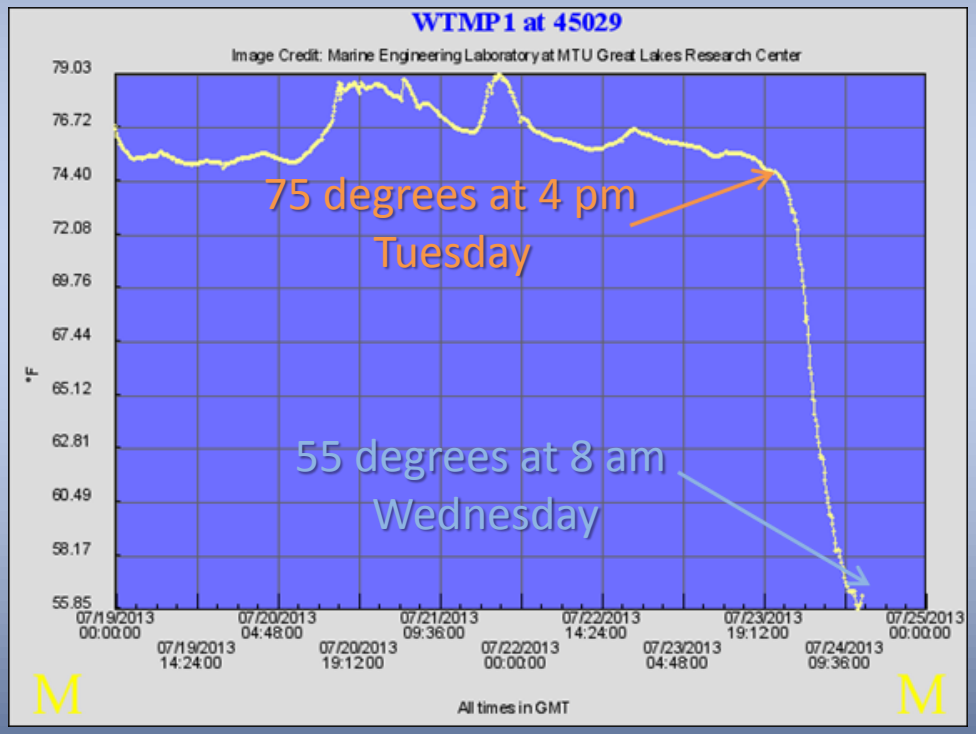


8 am Wednesday morning

Buoy Surface Temperatures



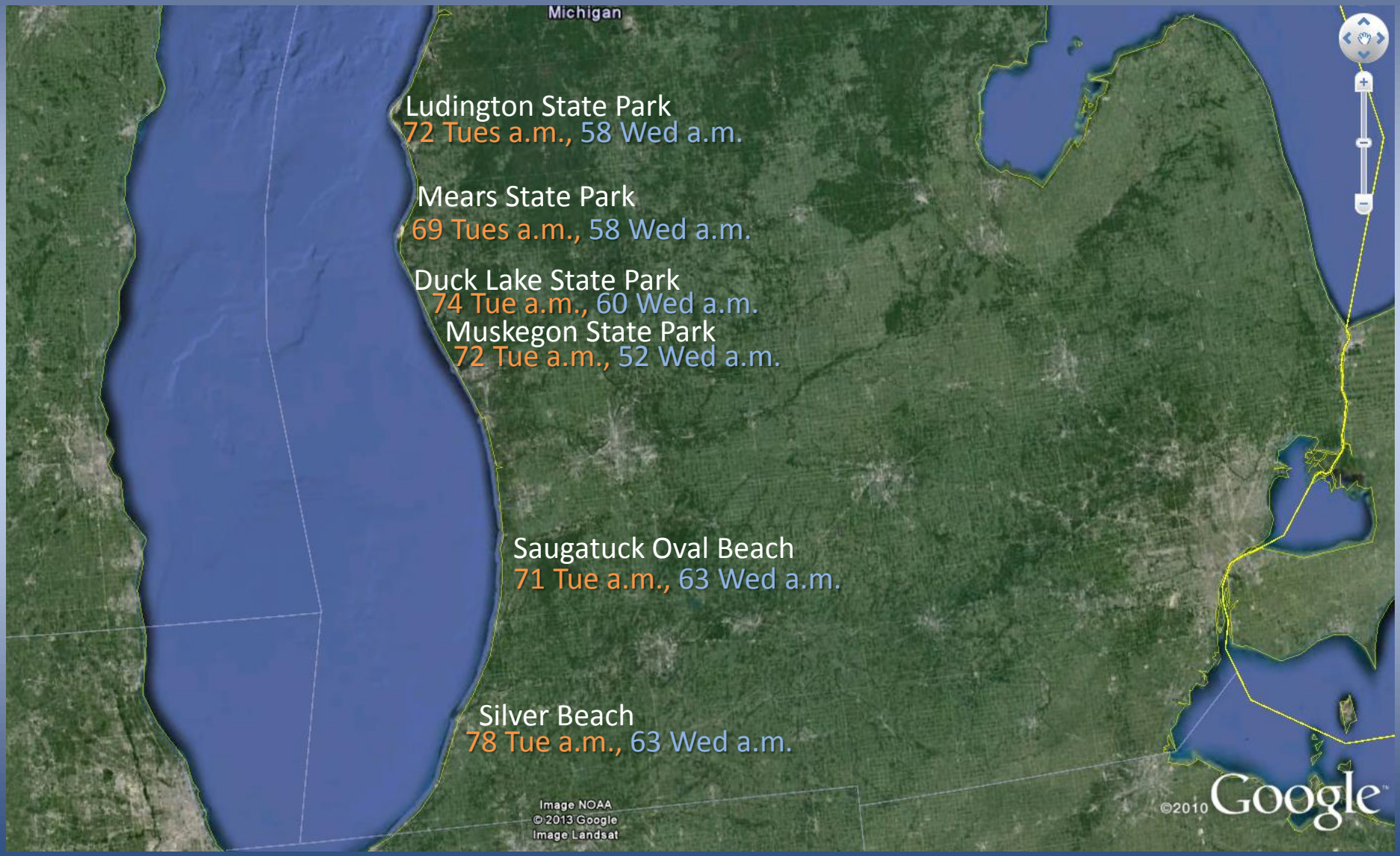
Ludington Buoy



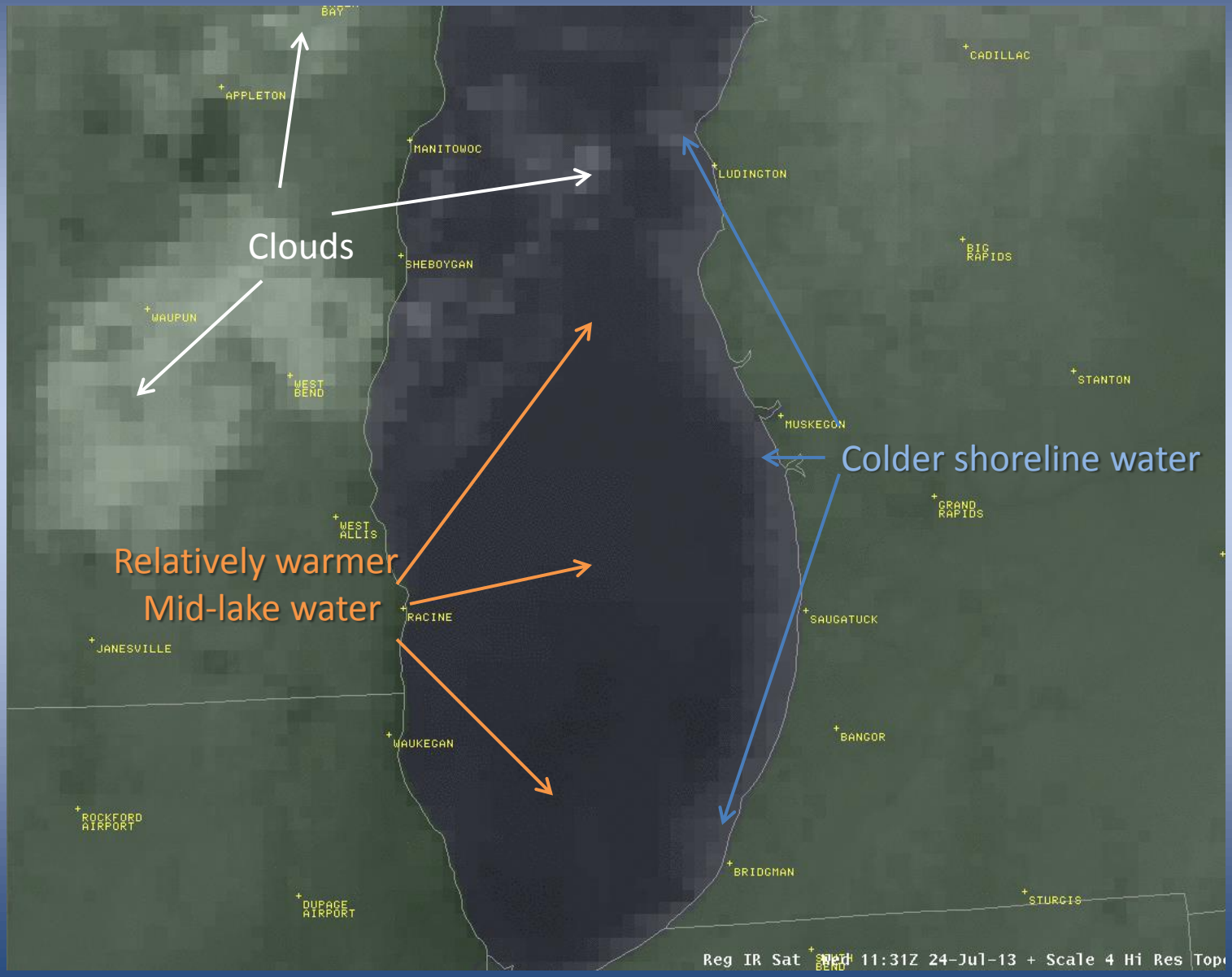
Port Sheldon Buoy

Data courtesy of Upper Great Lakes Observing System
of Michigan Tech Great Lakes Research Center

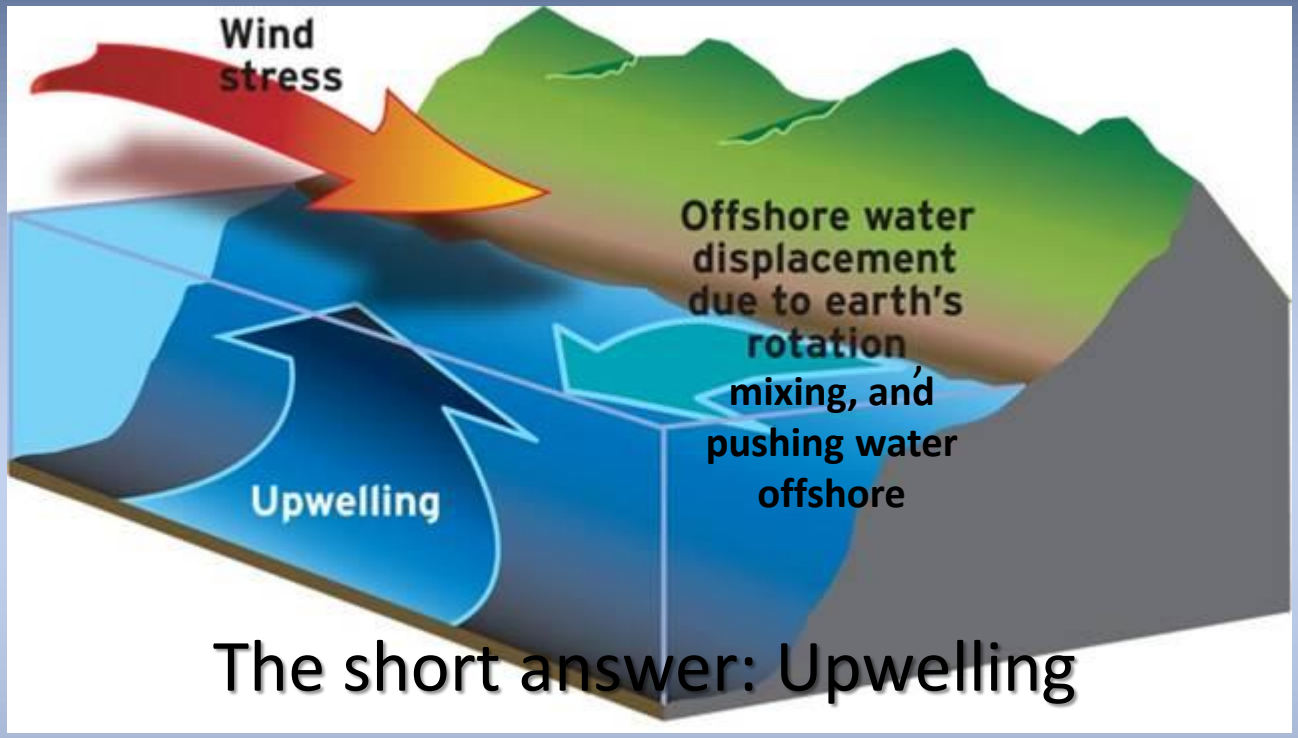
Beach Water Temperature Changes



Satellite Temperatures Wednesday Morning



What caused the drastic drop in water temperatures so quick?



Strong northerly winds (orange arrow) blew 30-35 mph on Tuesday. As the wind occurred, the warm shoreline water that has been in place was displaced (light blue arrow above) toward mid-lake as a combined result from the winds blowing the warmer water away from the shore, mixing the water, and the earth's rotation. This displacement allowed colder water from the deep parts of Lake Michigan to "Upwell" (dark blue arrow), and end up at the shoreline.